

In the claims:

1. (Cancelled)
2. (New) A process to prepare nanostructured materials comprising:
generating a plasma with an apparatus comprising an anodic column and a cathodic column;
introducing an oxidizing gas into the plasma;
injecting a precursor material into the plasma through at least one of the anodic and cathodic columns; and
recovering the nanostructured material.
3. (New) The process of claim 2, wherein the injection step comprises injecting the precursor material into the cathodic column through forced convection
4. (New) The process of claim 2, wherein the step of forming comprises introducing the oxidizing gas into an anodic column of a transferred electric arc.
5. (New) The process of claim 2, wherein the step of forming comprises introducing the oxidizing gas into an anodic column of a free-burning electric arc.
6. (New) The process of claim 2, further comprising injecting at least one of a quench and dilution stream.